vertex lubricants
Oils // Grease // Coolant // Chemicals

MSDS
Material Safety Data Sheet

BRAKE SURFACE AND PARTS CLEANER AEROSOL

SECTION 1 – IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name:	Brake Surface and Parts Cleaner
Product Use:	Brake and Surface Solvent Cleaner
Supplier:	Vertex Lubricants 22 Marphona Crescent Takanini 2105 Phone: 09/640 0004 Email: info@vertexlubricants.co.nz
Emergency Number:	0800 353 645
National Poisons Centre:	0800 764 766
Chemical Nature:	Aromatic Hydrocarbons, Propanol, Carbon Dioxide, Other ingredients (not hazardous)
Issue Date:	22 February 2024 and is valid for 5 years from this date.

SECTION 2 – HAZARDS IDENTIFICATION

Classification of the product

Considered as a hazardous substance according to the Hazardous Substance (Minimum Degrees of Hazard) Regulations NZ.

Classified as a dangerous goods for transport purposes.

HSNO Classifications:		**GHS Classifications:**	
2.1.2A	Flammable Aerosol	Flammable Aerosol	Category 2
6.1E	(Asp) Acutely toxic (aspiration)	Aspiration hazard	Category 1
6.3A	Irritating to the skin	Skin irritation	Category 2
6.9B	(Narc) Harmful to human target organs or systems	STOT (single exposure)	Category 3
9.1B	Ecotoxic in the aquatic environment with long lasting effects	Aquatic toxicity	Category 2

Pictograms

Signal Words: Danger

Hazard Statements

H225	Highly flammable liquid and vapour.	H315	Causes skin irritation.
H229:	Pressurised container: May burst if heated.	H336	May cause drowsiness or dizziness (narcotic).
H304	May be fatal if swallowed and enters airways.	H411	Toxic to aquatic life with long lasting effects.

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Hazard and Precautionary Information:

Warning. Flammable aerosol. Causes mild skin irritation. May be harmful if inhaled. Toxic to aquatic life with long lasting effects. Keep out of reach of children. Read label before use. Read Safety Data Sheet before use. Keep away from heat/sparks/open flames/hot surfaces. No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Protect from sunlight. Do not expose to temperatures exceeding 50°C.

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS	CAS Number	Proportion, %	WES TWA, mg/m^3	WES STEL, mg/m^3
Aromatic Hydrocarbons	64742-49-0	> 60	1,400	1,750
Propanol	67-63-0	< 10	983	1,230
Carbon Dioxide	124-38-9	< 10	9,000	54,000
Other ingredients (not hazardous)	-	to 100	-	-

This is a commercial product whose exact ratio of components may vary slightly. Minor quantities of other non-hazardous ingredients are also possible. The SWA TWA exposure value is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5-day working week. The STEL (Short Term Exposure Limit) is an exposure value that may be equalled (but should not be exceeded) for no longer than 15 minutes and should not be repeated more than 4 times per day. There should be at least 60 minutes between successive exposures at the STEL. The term "peak "is used when the TWA limit, because of the rapid action of the substance, should never be exceeded, even briefly.

SECTION 4 – FIRST AID MEASURES

If medical advice is needed, have product container or label at hand.

If exposed or if you feel unwell: Call a POISON CENTRE (0800 764 766) or doctor.

Ingestion: IF SWALLOWED: Immediately call a POISON CENTRE or doctor. Do NOT induce vomiting. Where there is risk of vomiting, lean person forward or place on left side to avoid aspiration of product into lungs. Obtain immediate medical attention.

Skin contact: IF ON SKIN: Remove contaminated clothing. Wash with plenty of soap and water. Direct contact may cause irritation in sensitive individuals. If skin irritation occurs: Get medical advice.

Eye contact: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice.

Inhalation: IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTRE or doctor.

Notes to physician: Treat symptomatically and supportively. No specific antidote.

SECTION 5 – FIRE FIGHTING MEASURES

Specific hazards: Containers can build up pressure if exposed to heat and/or fire and may burst. Vapours may form an explosive mixture with air. Vapours can travel to a source of ignition and flash back. May float and be reignited on surface water.

Further advice: On burning may emit toxic fumes including those of carbon monoxide and carbon dioxide. Fire fighters to wear self-contained breathing apparatus if risk of exposure to products of combustion. Use water spray to keep fire-exposed containers cool.

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Extinguishing media:	For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam. For large fires, use water spray, fog, or foam. Use water spray to cool fire-exposed containers. Water may be ineffective. Do not discharge extinguishing waters into the aquatic environment. Do NOT use straight streams of water.
Hazchem Code:	3YE

SECTION 6 – ACCIDENTAL RELEASE MESSURES

Minor spills:	Clean up all spills immediately. Remove all sources of ignition. If safe, damaged containers should be placed in a container outdoors, away from all ignition sources. Provide ventilation. Collect spillage.
Major spills:	Evacuate the spill area. Call the Fire Brigade. Remove all sources of ignition. If safe to do so, prevent spillage from entering drains or water courses. If material enters drains, advise emergency services. Use absorbent (soil, sand or other inert material). Collect and seal in properly labelled containers for disposal.

SECTION 7 – HANDLING AND STORAGE

Handling Precautions:	Read product label before use. Keep out of reach of children. This product is highly flammable. Keep away from heat and open flames/hot surfaces. No smoking. Do not use near an open flame or other ignition source. Use outdoors or in well-ventilated area. Avoid breathing vapour. Wash hands with soap and water after handling. Avoid release to the environment.
Storage:	Protect from sunlight. Store in a well-ventilated, cool, dry place. Keep away from heat, sparks, and flame. Keep container tightly closed. Store locked up.

SECTION 8 – EXPOSURE CONTROLS AND PEROSNAL PROTECTION

Occupational Exposure Limits: No value assigned for this specific material by the New Zealand Occupational Safety and Health Service (OSH). Refer Section 3 for WES TWA, mg/m^3 and WES STEL, mg/m^3 exposure limits for individual ingredients.

As published by the New Zealand Occupational Safety and Health Service (OSH). No Exposure Standards assigned to other constituents.

WES - TWA (Workplace Exposure Standard - Time Weighted Average) - The eight-hour, time-weighted average exposure standard is designed to protect the worker from the effects of long-term exposure.
Asphyxiant - gases which can lead to reduction of oxygen concentration by displacement or dilution. The minimum oxygen content in air should be 18% by volume under normal atmospheric pressure.

These Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

Engineering controls:
Ensure ventilation is adequate and that air concentrations of components are controlled below quoted Exposure Standards. Use in well-ventilated areas. Keep containers closed when not in use. An asphyxiant gas which can lead to the displacement or dilution of oxygen. The minimum oxygen content in air should be 18% by volume under normal atmospheric pressure.

Personal Protective Equipment:
The selection of PPE is dependent on a detailed risk assessment. The risk assessment should consider the work situation, the physical form of the chemical, the handling methods, and environmental factors. Wear clean overalls, safety boots, general purpose gloves (PVC) and safety spectacles. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use. For leaking aerosol cans: Wear clean overalls, safety boots, general purpose gloves (PVC) and full-face visor. If risk of inhalation exists, wear organic vapour/particulate respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear liquid spray.
Boiling Point:	No specific data. Liquid at normal temperature.
Can Pressure, kPa:	300 – 600
Vapour Density, (Air = 1):	> 1
Flashpoint, C:	< 0
Solubility in Water:	Partly soluble

SECTION 10 – STABILITY AND REACTIVITY

Chemical stability: Stable under normal conditions of use.

Conditions to avoid: Avoid exposure to heat, sources of ignition, and open flame.

Incompatible materials: Incompatible with oxidising agents.

Hazardous decomposition products: Oxides of carbon.

Hazardous reactions: Hazardous polymerisation will not occur.

SECTION 11 – TOXOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

Ingestion: Swallowing can result in nausea, vomiting and central nervous system depression. If the victim is showing signs of central system depression (like those of drunkeness) there is greater likelihood of the patient breathing in vomit and causing damage to the lungs. Breathing in vomit may lead to aspiration pneumonia (inflammation of the lung).

Eye contact: May be an eye irritant.

Skin contact: Contact with skin may result in irritation. Will have a degreasing action on the skin. Repeated or prolonged skin contact may lead to irritant contact dermatitis.

Inhalation: Breathing in vapour can result in headaches, dizziness, drowsiness, and possible nausea. Breathing in high concentrations can produce central nervous system depression, which can lead to loss of co-ordination, impaired judgement and if exposure is prolonged, unconsciousness. Intentional misuse by deliberately concentrating and breathing the contents can be harmful or fatal.

Long Term Effects: No information available for the product.

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Toxicological Data: No LD50 data available for the product.

SECTION 12 – ECOLOGICAL INFORMATION

Ecotoxicity: Product is harmful to aquatic organisms with long lasting effects. Experimental data on the finished product are not available.

Mobility: Floats on water. Volatile. Some components show low soil mobility.

Persistence/degradability: Some components may be persistent.

Bioaccumulation: Has the potential to bioaccumulate.

SECTION 13 – DISPOSAL CONSIDERATION

Material Disposal: Product wastes are ecotoxic and should be disposed of in accordance with applicable regulations. Do not dispose into the environment, in drains or in water courses. Waste product should not be allowed to contaminate soil or water.
Large quantities should be handled by a suitable disposal facility. Incineration in an authorised facility is suggested.

Container Disposal: Recycle empty container in an approved recycling stream. Product containers are considered wastes of the same class as the contents and should be disposed of in accordance with applicable regulations.

SECTION 14 – TRANSPORT INFORMATION

Road and Rail Transport		Marine Transport		Air Transport	
UN No.	1950	**UN No.**	1950	**UN No.**	1950
Proper Shipping Name	Aerosols	**Proper Shipping Name**	Aerosols	**Proper Shipping Name**	Aerosols
DG Class	2.1	**DG Class**	2.1	**DG Class**	2.1
Sub. Risk	None	**Sub. Risk**	None	**Sub. Risk**	None
Pack Group	II	**Pack Group**	II	**Pack Group**	II
Hazchem	2(Y)E	**Hazchem**	2(Y)E	**Hazchem**	2(Y)E

Transport labels Required.

SECTION 15 – REGLATORY INFORMATION

Inventory Listing: All components of this product are listed on the New Zealand Inventory of Chemicals (NZIoC) and Australian NICNAS AICS. This substance is to be managed using the conditions specified in an applicable Group Standard.

EPA Approval Number: HSR002515 Aerosols (Flammable) Group Standard 2020

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SECTION 16 – ANY OTHER RELEVANT INFORMATION

Additional information

Health Effects from Exposure: It should be noted that the effects from exposure to this product will depend on several factors including: frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

Abbreviations

AICS	Australian Inventory of Chemical Substances
ADG	Australian Code for the Transport of Dangerous Goods by Road and Rail
CAS	Chemical Abstract Service number
EMS	Emergency Response Procedures for Ships Carrying Dangerous Goods
EPA	Environmental Protection Agency (New Zealand)
GHS	Globally Harmonized System
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC_{50}	Lethal Concentration, 50% / Median Lethal Concentration
LD_{50}	Lethal Dose, 50% / Median Lethal Dose
LEL	Lower Explosion Limit
mg/m^3	Milligrams per Cubic Metre
NICNAS	National Industrial Chemicals Notification and Assessment Scheme (Australia)
NZIoC	New Zealand Inventory of Chemicals
N.O.S.	Not otherwise specified
OEL	Occupational Exposure Limit
PEL	Permissible Exposure Limit
STEL	Short-Term Exposure Limit
STOT-RE	Specific target organ toxicity (repeated exposure)
STOT-SE	Specific target organ toxicity (single exposure)
TLV	Threshold Limit Value
TWA	Time Weighted Average
UEL	Upper Explosion Limit

Date of preparation of MSDS

22 February 2024

MSDS SUMMARISES OUR BEST KNOWLEDGE OF THE HEALTH AND SAFETY HAZARD INFORMATION OF THE PRODUCT AND HOW TO SAFELY HANDLE AND USE THE PRODUCT IN THE WORKPLACE. EACH USER MUST REVIEW THIS MSDS IN THE CONTEXT OF HOW THE PRODUCT WILL BE HANDLED AND USED IN THE WORKPLACE.

IF CLARIFICATION OR FURTHER INFORMATION IS NEEDED TO ENSURE THAT AN APPROPRIATE RISK ASSESSMENT CAN BE MADE, THE USER SHOULD CONTACT THIS COMPANY SO WE CAN ATTEMPT TO OBTAIN ADDITIONAL INFORMATION FROM OUR SUPPLIERS

OUR RESPONSIBILITY FOR PRODUCTS SOLD IS SUBJECT TO OUR STANDARD TERMS AND CONDITIONS, A COPY OF WHICH IS SENT TO OUR CUSTOMERS AND IS ALSO AVAILABLE ON REQUEST.

Please read all labels carefully before using the product.

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